REMARKS

This Amendment is submitted in response to the Office Action dated May 21, 2004, having a shortened statutory period set to expire August 21, 2004.

Claim Status

Claims 1-15 are pending. Applicants have amended Claims 1, 4 and 12, and canceled Claims 3 and 9-11. No new matter has been entered by these amendments.

Claim Rejections -- 35 U.S.C. § 102

On page 2 of the present Office Action, Claims 1-15 have been rejected under 35 U.S.C. §102(b) as being anticipated by *Dennison, et al.* (United States Patent No. 4,048,660). That rejection is respectfully traversed and reconsideration of the Claims is requested.

With respect to independent Claim 1 in the present application, it is argued in the present Office Action that *Dennison* generally teaches the present invention in Figures 5 and 8 and the associated descriptions, and in particularly at col. 9, lines 44-68. The Office Action argues that the "first integrator" is shown by element 168 in Figure 5 and the "second integrator" at element 156 in Figure 5, which is argued to generate a second gain that is larger than the first gain (with reference to Figure 8).

Applicants respectfully submit that integrator 156 does not provide a gain that is greater than integrator 168. Applicants refer to col. 12, lines 39-40 where it is stated "normalization circuit 167 includes an integrator 168 identical to integrator 156." Because these integrators are identical, *Dennison* is teaching that they have different gains.

It is further argued on page 3 of the present Office Action that *Dennison* teaches one integrator is operated during a seek operation and the second integrator is operated during a follow operation. However, as explained at the cited section of *Dennison* at col. 9, lines 44-68, track seeking circuit 101 provides the track seeking operation of *Dennison's* system, not normalization circuit 167. Track seeking circuit 101 performs an arithmetic operation through the operation of Counter X, Counter Y and the ROM. Track seeking circuit 101 contains no

integration whatsoever. Moreover, as explained at col. 12, lines 18-68, track following circuit 104 provides the track following functionality in conjunction with the normalization feature provided by normalization circuit 167. Therefore, both integrators 156 and 168 operate during the follow operation.

In summary, *Dennison* fails to disclose or suggest the elements in claim 1 in the present application, including:

> *"a first integrator that generates a first gain and operates during the seek operation; and a second integrator that generates a second gain that is larger than the first gain and operates during the follow operation."*

Consequently, Applicants respectfully request reconsideration of the rejection of independent Claim 1 in the present application. Applicants respectfully submit that independent Claim 1 and the claims dependent thereon are not shown or suggested by *Dennison* and that the rejection of those claims be withdrawn.

With respect to independent Claim 5 in the present application, therein is recited the step of:

> *"an integrator that generates a corresponding first gain during the seek operation and a second gain different from the first gain during the follow operation."*

With respect to independent Claim 12 in the present application, therein is recited:

> *"first gain being generated when the magnetic head does not read or write data and the second gain being generated when the magnetic head reads or writes data"*

With respect to these elements of independent Claims 5 and 12, *Dennison* does not show an "*integrator which generates a first gain*" during a seek operation or when the head does not read or write data, and having a "*second gain*" larger or different from the first gain during a follow operation, or when the magnetic head reads or writes data. As explained above, track seeking circuit 101 performs the seek operation and does not include an integrator having a

different gain than the integrators of the follow circuit 104. Moreover, the integrators 156 and 168 are identical and have the same gain. Still further, the integrators 156 and 168 only operate during the follow operation and not during the seek operation.

Consequently, Applicants respectfully submit that *Dennison* does not show or suggest independent Claims 5 and 12 in the present application. Applicants respectfully request reconsideration of the rejection of independent Claims 5 and 12, and further the claims dependent thereon for the reasons given above.

Respectfully submitted,

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